UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/685,656	10/14/2003	W. Todd Daniell	190250-1300	5661

38823 7590 08/21/2008 THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP/ AT&T Delaware Intellectual Property, Inc. 600 GALLERIA PARKWAY, S.E. SUITE 1500 ATLANTA, GA 30339-5994	EXAMINER
	MACILWINEN, JOHN MOORE JAIN

ART UNIT	PAPER NUMBER
2142	

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
Office Action Summary	10/685,656	DANIELL ET AL.
	Examiner	Art Unit	
	John M. MacIlwinen	2142	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS,
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *7/30/2008*.

2a)☐ This action is **FINAL.**   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1, 6, 11 - 14, 16 - 17, 19 - 39* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1, 6, 11 - 14, 16 - 17, 19 - 39* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All   b)☐ Some *   c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date *7/30/2008*.

4)☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____

5)☐ Notice of Informal Patent Application

6)☐ Other: _____

DETAILED ACTION

Response to Arguments

1.   Applicant's arguments, filed 7/30/2008, relating to pages 14, 15, and 17 - 28 have

been fully considered. Applicant argues on said pages that "none of Shipp, Devine, Milliken,

Anderson, Uuencode, Gordon and Sahami, taken alone or in combination, discloses, teaches

or suggests a "method comprising . . . sorting the generated tokens in accordance with the

corresponding determined spam probability value". Applicant relates this argument to the

claims noted above. Applicant's argument is persuasive, but moot in view of the new

grounds of rejection, which are further detailed below.

2.   The remainder of Applicant's arguments have been fully considered but they are not

persuasive.

3.   Applicant's arguments on page 12, consist Applicant repeating arguments that

Applicant states have already been presented and argued. These arguments, on pages 12 -

13, are unpersuasive for the reasons given in the prior office actions.

4.   Applicant's arguments on pages 12 and 13 specifically argues Shipp, arguing that

"Shipp teaches away from tokenizing the attachment by specifically choosing not to log such

emails as spam." This argument, as noted above, is unpersuasive for the reasons given in

the prior office action. Paragraph 81 of Shipp states:

> *If mail contains attachments, do not log (spam mail **currently** does not contain*
>
> *attachments). (Emphasis added)*

Shipp thus does not teach away from considering that spam email may contain

attachments. Shipp notes, through the use of the word "currently", that spam email does

not contain attachments, but also anticipates that spam emails not containing attachments

may change in the future. Milliken, the reference cited to teach processing email

attachments in relation to spam email, was filed more than a full year after Shipp. Milliken

clearly views the situation regarding spam emails containing attachments to have changed.

Shipp, by specifically limiting their assertion that spam emails do not contain attachments to

the current state in 2002, clearly does not teach away from a future consideration of spam

email containing attachments at some other point in time.

Applicant's argument thus is not persuasive. Furthermore, Applicant's present

argument fails to address the Milliken reference; In response to applicant's arguments

against the references individually, one cannot show nonobviousness by attacking

references individually where the rejections are based on combinations of references. See

In re Keller, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.,* 800 F.2d 1091,

231 USPQ 375 (Fed. Cir. 1986).

5.   Applicant continues on pages 13 and 14, repeating the claim language of claim 1.

Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a

general allegation that the claims define a patentable invention without specifically pointing

out how the language of the claims patentably distinguishes them from the references.

6.   Applicant continues on page 16, noting that they are repeating a previously

presented and addressed argument, reiterates the argument that "Gordon fails to even

suggest 'determining a probability value for each of the generated tokens." To support this

argument, Applicant had stated that

"determining a probability associated with words in an email is completely different

than performing actions to tokenize an attachment"

The Examiner thus noted that it was never the position of The Office that

"determining a probability associated with words" was the same as "performing actions to

tokenize an attachment".

Applicant now elaborates on their argument against the applicability of Gordon,

arguing that "Gordon only teaches determining a probability of words or groups of words.

Nowhere does Gordon even suggest 'determining a probability value for each of the generated tokens". However, Gordon does clearly teach determining a probability value for each of a generated token (col. 11 lines 15 - 32). In one embodiment disclosed by Gordon, said tokens may be represented by words or groups of words. The claim, however, was rejected under 35 USC 103, Shipp in view of Devine, Milliken, Anderson, Uuencode and MIME FAQ, Gordon and further in view of Sahami. That Gordon teaches one embodiment where tokens may correspond to "words or groups of words" does not prohibit the citation as a whole from teaching where tokens represent other items as well, such as the result of "tokenizing the text body", "tokenizing the SMTP email address", "tokenizing the domain name" and "tokenizing the attachment". Said claimed subject matter was taught using the other cited references. As noted above, the rejection was made under 35 USC 103; In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.,* 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). Applicant's arguments against Gordon are thus not persuasive.

7.   Applicant next argues that the arguments relating to Gordon were neglected and not addressed "in any detail" and thus that "the Office Action fail[ed] to provide a proper rejection." Applicant's argument is not persuasive, as the Applicant's argument relating to Gordon had been fully addressed since the support for said argument was fully addressed, as was discussed above.

8.   Applicant's arguments relating to the newly added subject matter, as noted above, are thus persuasive but moot in view of the new grounds of rejection made below. Applicant's arguments otherwise are unpersuasive, for the reasons given above.

Claim Rejections - 35 USC § 103

4.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or
> described as set forth in section 102 of this title, if the differences between the subject
> matter sought to be patented and the prior art are such that the subject matter as a
> whole would have been obvious at the time the invention was made to a person having
> ordinary skill in the art to which said subject matter pertains. Patentability shall not be
> negatived by the manner in which the invention was made.

5.   Claims 1 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Shipp (US 2004/0093384 A1) in view of Devine et al. (US 6,968,571 B2), hereafter Devine,

further in view of Milliken et al. (US 2004/0073617 A1), hereafter Milliken, further in view of

Anderson et al. (US 2004/0064537 A1), hereafter Anderson, further in view of Uuencode

and MIME FAQ

(http://web.archive.org/web/20021217052047/http://users.rcn.com/wussery/attach.html),

further in view of Gordon et al. (US 6,732,157 B1), hereafter Gordon, further in view of

Sahami et al. (A Bayesian Approach to Filtering Junk E-Mail), hereafter Sahami, further in

view of Woitaszek and Shaaban (Identifying Junk Electronic Mail in Microsoft Outlook with a

Support Vector Machine), hereafter Woitaszek.

6.   Regarding claim 1, Shipp shows a method comprising

        receiving an email message from a simple mail transfer protocol (SMTP) server, the

email message comprising ([0018,0023])

        a text body ([0064,0065])

        an SMTP email address ([0018,0023,0039,0045,0046])

        a domain name corresponding to the SMTP email address ([0039,0045,0046])

        an attachment ([0081])

        tokenizing the text body to generate tokens representative of words in the text

([0064-0067])

tokenizing the SMTP email address to generate a token representative of the SMTP
email address ([0039,0043,0069])

tokenizing the domain name to generate a token that is representative domain name
([0022])

as well as showing MD5 hashing ([0093]).

Shipp does not show a 32-bit string indicative of the length of the email message,
nor does Shipp show tokenizing the attachment and the steps comprising tokenizing said
attachment, determining a probability value for each generated token, selecting a
predefined number of interesting tokens, the interesting tokens being the generated tokens
having the greatest non-neutral probability value; performing a Bayesian analysis on the
selected interesting tokens to generate a spam probability; and categorizing the email
message as a function of the generated spam probability.

Devine shows utilizing a 32-bit string in a message header which is indicative of the
total length of said message (col. 24 lines 52-67).

It would have been obvious to one of ordinary skill in the art at the time of the
invention to modify the disclosure of Shipp with that of Devine in order to better identify
message contents so as to facilitate leveraging common code for processing messages
(Devine col. 23 lines 60-61).

Shipp in view of Devine do not show tokenizing the attachment.

Milliken shows tokenizing the attachment to generate a token that is representative
of the attachment, the tokenizing steps comprising the steps of generating a MD5 hash of
the attachment ([0010-0013 and 0052]where MD5 hashes are inherently 128-bit).

It would have been obvious to one of ordinary skill in the art at the time of the
invention to modify the disclosure of Shipp in view of Devine with that of Milliken in order to
better identify spam email, as at the time of Shipp's disclosure, spam email was thought

"currently" not to be associated with attachments ([81]), an area for which Milliken's more
recent disclosure provides updated guidance.

Shipp in view of Devine and Milliken do not show appending the 32-bit string to the
generated MD5 hash to produce a 160-bit number.

Anderson shows ([0057-0059]) appending an MD5 hash (inherently 128-bits) to
network transmission size information (shown by Devine to be said 32-bit string, and where
32 +128 is inherently 160).

It would have been obvious to one of ordinary skill in the art at the time of the
invention to modify the disclosure of Shipp in view of Devine and Milliken with that of
Anderson in order to better uniquely identify messages (Anderson [0057-0059]), leading to
improved message spam identification.

Shipp in view of Devine, Milliken and Anderson do not show UUencoding said 160-bit
number to generate a token representative of the attachment.

Uuencode and MIME FAQ shows UUencoding a file.

It would have been obvious to one of ordinary skill in the art at the time of the
invention to modify the disclosure of Shipp in view of Devine, Milliken and Anderson with
that of Uuencode and MIME FAQ in order to store the message identification information
(represented by the 160-bit number shown by Shipp in view of Devine, Milliken and
Anderson) in a format easily exchanged over email (UUencode and MIME FAQ) since
UUencoding produces an easily emailed file and since the disclosure of Shipp in view of
Devine, Milliken and Anderson relates to email and files transferred over email.
Furthermore, UUencoding is a prior art element, as shown in UUencode and MIME FAQ, and
thus UUencoding the 160-bit number is combing a prior art element (UUencoding) to known
methods (the known methods shown by Shipp in view of Devine, Milliken and Anderson) to
yield predictable results (the results being a UUencoded item).

Shipp in view of Devine, Milliken, Anderson and UUencode and MIME FAQ do not show determining a probability value for each of the generated tokens.

Gordon shows determining a probability value for each of the generated tokens (col. 11 lines 15 –55).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the disclosure of Shipp in view of Devine, Milliken, Anderson and Uuencode and MIME FAQ with that of Gordon in order to better identify spam elements in messages (Gordon col. 11 lines 15 –55).

Shipp in view of Devine, Milliken, Anderson, UUencode and MIME FAQ and Gordon do not show selecting a predefined number of interesting tokens, the interesting tokens being the generated tokens having the greatest non-neutral probability value; performing a Bayesian analysis on the selected interesting tokens to generate a spam probability; and categorizing the email message as a function of the generated spam probability.

Sahami shows selecting a predefined number of interesting tokens, the interesting tokens being the generated tokens having the greatest non-neutral probability value; performing a Bayesian analysis on the selected interesting tokens to generate a spam probability; and categorizing the email message as a function of the generated spam probability (pg. 2, col. 2; pg. 4, col. 2; pg. 6, col. 1).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the disclosure of Shipp in view of Devine, Milliken, Anderson, Uuencode and MIME FAQ and Gordon with that of Sahami in order to more accurately identify spam email.

Shipp in view of Devine, Milliken, Anderson, UUencode and MIME FAQ and Gordon and Sahami do not show explicitly show where the tokens are sorted in accordance with the corresponding determined spam probability value.

Woitaszek shows where the tokens are sorted in accordance with the corresponding

determined spam probability value (Tables 4 and 5).

It would have been obvious to one of ordinary skill in the art at the time of the

invention to modify the disclosure of Shipp in view of Devine, Milliken, Anderson, Uuencode

and MIME FAQ, Gordon and Sahami with that of Woitaszek in order to arrange the

calculated values in a logical manner, enabling a simple method of extracting the most

interesting results (as discussed by Sahami) via simply taking the top occurring results in

Woitaszek's sorted list, as well as to include the abilities to integrate the spam software into

a commonly used email program (Woitaszek, Abstract, pg. 1 col. 2).

Shipp in view of Devine, Milliken, Anderson, Uuencode and MIME FAQ, Gordon,

Sahami and Woitaszek thus show claim 1.

7.   Regarding claim 39, Shipp in view of Devine, Milliken, Anderson, Uuencode and

MIME FAQ, Gordon, Sahami, further in view of Woitaszek show wherein the email is

received at a computing device (Milliken, Abstract, Shipp, Abstract).

8.   Claims 6, 16, 17, 23, 24, 25, 30, 31, 32, 33 and 34 are rejected under 35 U.S.C.

103(a) as being unpatentable over Shipp in view of Milliken and Woitaszek.

9.   Regarding claims 6 Shipp shows a method comprising receiving an email message

comprising a text body ([0064,0065]), an SMTP email address ([0039.0043,0069]), and a

domain name corresponding to the SMTP email address ([0039,0045,0046]);

tokenizing the SMTP email address to generate a token representative of the SMTP

email address ([0039,0043,0063])

tokenizing the domain name to generate a token representative of the domain name

([0022]), and determining a spam probability value from the generated tokens

([0014,0076]).

Shipp does not show tokenizing the attachment to generate a token that is

representative of the attachment.

Milliken shows tokenizing the attachment to generate a token that is representative of the attachment ([10-13 and 51 – 53]).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the disclosure of Shipp with that of Milliken in order to better identify spam email, as at the time of Shipp's disclosure, spam email was thought "currently" not to be associated with attachments ([81]); spam and attachments are however an area for which Milliken's more recent disclosure provides updated guidance.

Shipp in view of Milliken, Anderson do not show explicitly show where the tokens are sorted in accordance with the corresponding determined spam probability value.

Woitaszek shows where the tokens are sorted in accordance with the corresponding determined spam probability value (Tables 4 and 5).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the disclosure of Shipp in view of Devine, Milliken, Anderson, Uuencode and MIME FAQ, Gordon and Sahami with that of Woitaszek in order to arrange the calculated values in a logical manner, as well as to include the abilities to integrate the spam software into a commonly used email program (Woitaszek, Abstract, pg. 1 col. 2).

Shipp in view of Milliken and Woitaszek thus show claim 6.

9.   Regarding claim 16, Shipp in view of Milliken and Woitaszek further show receiving an email message including a text body (Shipp [0064,0065]).

7.   Regarding claim 17, Shipp in view of Milliken and Woitaszek further show tokenizing the words in the text body to generate tokens representative of the words in the text body (Shipp [0064,0065]).

8.   Regarding claim 23, Shipp in view of Milliken and Woitaszek further show a system comprising a text body (Shipp, [0064,0065]), an SMTP email address (Shipp,

[0039.0043,0069]), and a domain name corresponding to the SMTP email address (Shipp,

[0039,0045,0046]) and an attachment (Milliken [10-13]);

tokenizing the SMTP email address to generate a token representative of the SMTP

email address (Shipp, [0039,0043,0063])

tokenizing logic configured to tokenize the attachment to generate a token that is

representative of the attachment (Milliken [10-13 and 51 – 53])

tokenizing the domain name to generate a token representative of the domain name

(Shipp, [0022]), and

determining a spam probability value from the generated tokens (Shipp,

[0014,0076]) and

sorting logic configured to sort the generated tokens in accordance with the

corresponding determined spam probability value (Woitaszek, Abstract, Tables 4 and 5).

9.   Regarding claim 24, Shipp in view of Milliken and Woitaszek further show means for

receiving an SMTP email address, and a domain name corresponding to the SMTP email

address (Shipp, [0039,0045,0046]) and an attachment (Milliken [10-13]);

means for tokenizing the SMTP email address to generate a token representative of

the SMTP email address (Shipp, [0039,0043,0063])

means for tokenizing logic configured to tokenize the attachment to generate a token

that is representative of the attachment (Milliken [10-13 and 51 – 53])

means for tokenizing the domain name to generate a token representative of the

domain name (Shipp, [0022]), and

means for determining a spam probability value from the generated tokens (Shipp, [0014,0076]) and

sorting logic configured to sort the generated tokens in accordance with the corresponding determined spam probability value (Woitaszek, Abstract, Tables 4 and 5).

10.   Regarding claim 25, Shipp in view of Milliken and Woitaszek further show a computer-readable medium comprising computer-readable code adapted to instruct a programmable device to receiving an email message comprising an SMTP email address, ([0039.0043,0069]), a domain name corresponding to the SMTP email address ([0039,0045,0046]) and an attachment (Milliken [10-13]);

tokenizing the SMTP email address to generate a token representative of the SMTP email address ([0039,0043,0063])

tokenizing logic configured to tokenize the attachment to generate a token that is representative of the attachment (Milliken [10-13 and 51 – 53])

tokenizing the domain name to generate a token representative of the domain name ([0022]), and

determining a spam probability value from the generated tokens ([0014,0076]) and

sorting logic configured to sort the generated tokens in accordance with the corresponding determined spam probability value (Woitaszek, Abstract, Tables 4 and 5).

11.   Regarding claim 30, Shipp in view of Milliken and Woitaszek further show a system comprising email logic configured to receive an email message comprising an attachment (Shipp [0018,0023] and Milliken [10-13])),

tokenize logic configured to tokenize the entire attachment to generate a token representative of the attachment (Milliken [10-13 and 70]); and

analysis logic configured to determine a spam probability values from the generated tokens (Milliken [10-13] and Shipp [14,76]) and

sorting logic configured to sort the generated tokens in accordance with the corresponding determined spam probability value (Woitaszek, Abstract, Tables 4 and 5).

12.   Regarding claim 31, Shipp in view of Milliken and Woitaszek further show means for receiving an email message comprising an attachment (Shipp [0018,0023] and Milliken [10-13])),

means for tokenizing the attachment to generate a token representative of the attachment (Milliken [10-13 and 70]); and

means for determining a spam probability values from the generated tokens (Milliken [10-13] and Shipp [14,76])

sorting logic configured to sort the generated tokens in accordance with the corresponding determined spam probability value (Woitaszek, Abstract, Tables 4 and 5).

13.   Regarding claim 32, Shipp in view of Milliken and Woitaszek further show a computer-readable medium comprising computer-readable code adapted to instruct a programmable device to receive an email message comprising an attachment (Shipp [0018,0023] and Milliken [10-13])),

computer-readable code adapted to instruct a programmable device to tokenize logic configured to tokenize the entire attachment to generate a toke representative of the attachment (Milliken [10-13 and 70]); and

computer-readable code adapted to instruct a programmable device to determine a spam probability values from the generated tokens (Milliken [10-13] and Shipp [14,76]) and

computer-readable code adapted to instruct a programmable device to sort the generated tokens in accordance with the corresponding determined spam probability value (Woitaszek, Abstract, Tables 4 and 5).

14.   Regarding claim 33, Shipp in view of Milliken and Woitaszek further show receiving

an email message including a text body (Shipp [0064,0065]).

15.   Regarding claim 34, Shipp in view of Milliken and Woitaszek further show tokenizing

the words in the text body to generate tokens representative of the words in the text body

(Shipp [0064,0065]).

16.   Claims 11, 12, 13,14, 19, 20, 21, 22, 26, 27, 28, 29, 35, 36, 37, and 38 are

rejected under 35 U.S.C. 103(a) as being unpatentable over Shipp in view of Milliken and

Woitaszek as applied to claims 6 and 25 above, and further in view of Sahami.

10.   Regarding claims 11 and 26, Shipp in view of Milliken and Woitaszek show assigning

a spam probability value to the token representative of the SMTP email address (Shipp

[0018,0023,0039,0040-0043], Woitaszek, Tables 4 and 5) and

         assigning a spam probability value to the token representative of the domain name

(Shipp [0022]).

         Shipp in view of Milliken and Woitaszek do not show explicitly show generating a

Bayesian probability values using the spam probability values assigned to the tokens.

         Sahami shows generating a Bayesian probability values using the spam probability

values assigned to the tokens (pg.2, col. 2; pg. 4, col. 2; pg. 6, col. 1).

         It would have been obvious to one of ordinary skill in the art at the time of the

invention to modify the disclosure of Shipp in view of Milliken, Woitaszek and Gordon with

that of Sahami in order to more accurately identify spam email.

11.   Regarding claims 12 and 27 Shipp in view of Milliken, Woitaszek and Sahami further

show comparing the generated Bayesian probability value with a predefined threshold value

(Sahami, pg.2, col. 2; pg. 4, col. 2; pg. 6, col. 1).

12.   Regarding claims 13 and 28 Shipp in view of Milliken, Woitaszek and Sahami further

show categorizing the email message as spam in response to the Bayesian probability value

being greater than the predefined threshold (Sahami, pg.2, col. 2; pg. 4, col. 2; pg. 6, col.

1).

13.   Regarding claims 14 and 29 Shipp in view of Milliken and Sahami further show

categorizing the email message as non-spam in response to the Bayesian probability value

being not greater than the predefined threshold (Sahami pg. 6 col. 1).

14.   Regarding claims 19 and 35, Shipp in view of Milliken and Woitaszek show claim 17

and 34, as well as assigning a spam probability value to each of the tokens representation

of the words in the text body (Woitaszek, Tables 4 and 5)

        assigning a spam probability value to token representative of the attachment

(Woitaszek, Tables 4 and 5, and Milliken, [10-13]), but rather determining a single spam

probability value utilizing the tokens.

        Shipp in view of Milliken and Woitaszek do not explicitly show generating a Bayesian

probability value using the spam probability values assigned to the token.

        Sahami shows generating a Bayesian probability value using the spam probability

values assigned to the token (Sahami, pg. 4 col. 2).

        It would have been obvious to one of ordinary skill in the art at the time of the

invention to modify the disclosure of Shipp in view of Milliken and Woitaszek with that of

Sahami in order to more accurately identify spam email.

15.   Regarding claims 20 and 36, Shipp in view of Milliken and Sahami further show

comparing the generated Bayesian probability value with a predefined threshold value

(Sahami, pg. 4 col. 2).

16.   Regarding claims 21 and 37, Shipp in view of Milliken, Woitaszek and Sahami further

show categorizing the email message as spam in response to the Bayesian probability value

being greater than the predefined threshold (Sahami, pg.2, col. 2; pg. 4, col. 2; pg. 6, col.

1).

17.   Regarding claims 22 and 38, Shipp in view of Milliken, Woitaszek and Sahami further show categorizing the email message as non-spam in response to the Bayesian probability value being not greater than the predefined threshold (Sahami, pg. 6 col. 1).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John M. MacIlwinen whose telephone number is (571) 272-9686. The examiner can normally be reached on M-F 7:30AM - 5:00PM EST; off alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell can be reached on (571) 272-3868. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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